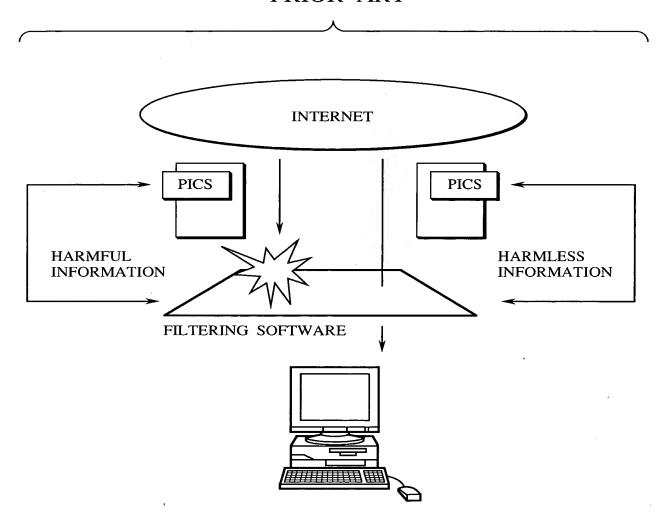




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FIG.1 PRIOR ART



1

FIG.2 PRIOR ART

```
< HTML >
<HEAD>
<TITLE>
Example of RSAC1 and SafeSurf Rated Page
</TITLE>

<META http-equiv-"PICS-Label" content- '(PICS-1.0)
</pre>
"http://www./rsac.org/ratingav01.html"
1 gen true comment "RASC1 North America Serber" by
"marks@icrosys.com" for "http://www.samplesite.com" on
"1996.09.05T02:15-0800" exp "1997.09.05T02:15-0800"
r (n 2 s 0 v 1 1 2))'

<META http-equiv-"PICS-Label" content- '(PICS-1.1)
</pre>
"http://www.classify.org/safesurf/" 1 gen t for
"http://www.samplesite.com/"
r (SS \sim \sim 000 \ 2 \ SS \sim \sim 100 \ 1))'>
</HEAD>
⟨BODY⟩
```

FIG.3
PRIOR ART

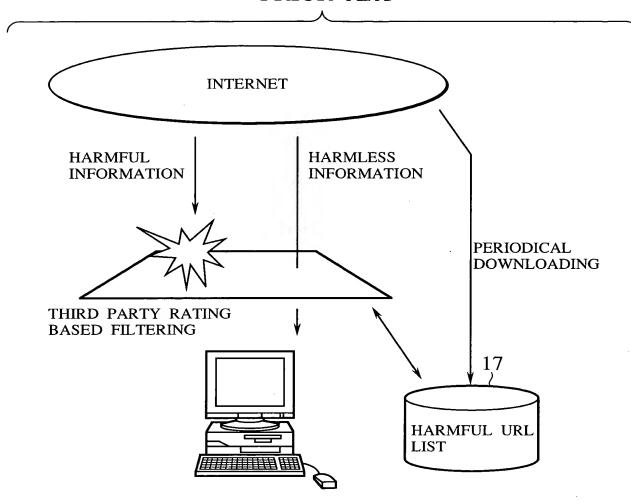


FIG.4 PRIOR ART

PRECISION & RECALL OF VARIOUS KNOWN FILTERING SCHEME

| SCHEME | PRECISION | RECALL |
|---------------------|-----------|--------|
| SELF-RATING | LOW | LOW |
| THIRD PARTY RATING | HIGH | LOW |
| AUTOMATIC FILTERING | LOW | HIGH |

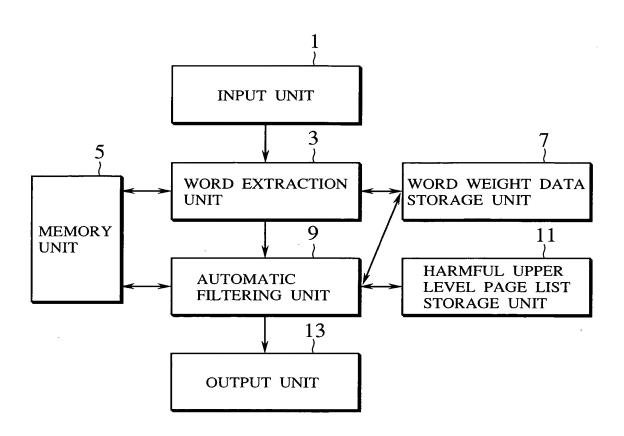
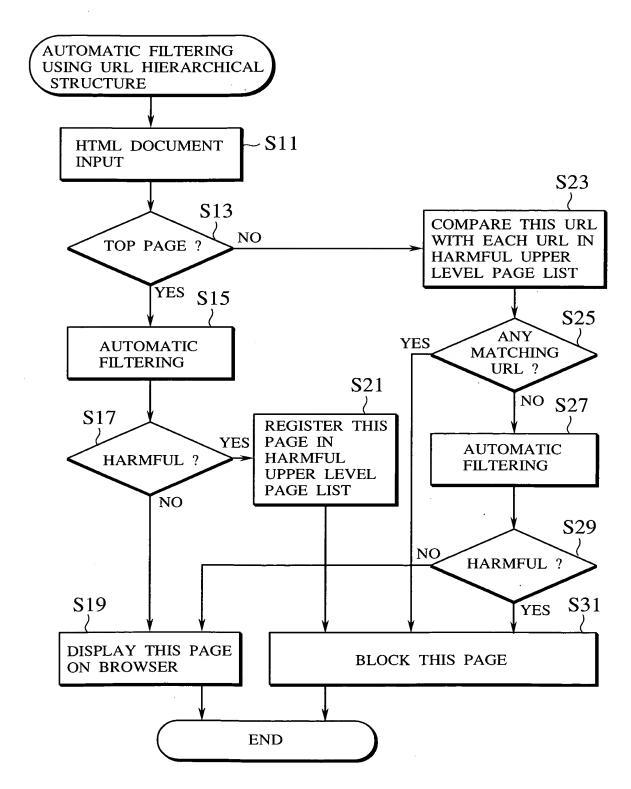


FIG.6



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FIG.7

HTML PAGE HARMFULNESS RATING STANDARD

| LEVEL | RATING | DESCRIPTION |
|-------|-------------------|--|
| 1 | HARMLESS | PAGE WITH NO SEXUAL EXPRESSION |
| 2 | PARTLY HARMFUL | PAGE WITH NO DIRECT SEXUAL EXPRESSION BUT CONTENT IMPLYING SEXUAL EXPRESSION |
| 3 | HARMFUL | PAGE CONTAINING SEXUAL EXPRESSION |

FIG.8

HTML DATA HARMFULNESS RATING RESULT

| LEVEL | NUMBER OF DOCUMENTS | RATE |
|-------|---------------------|-------|
| 1 | 6230 | 22.2% |
| 2 | 2055 | 7.3% |
| 3 | 19749 | 70.4% |

FIG.9

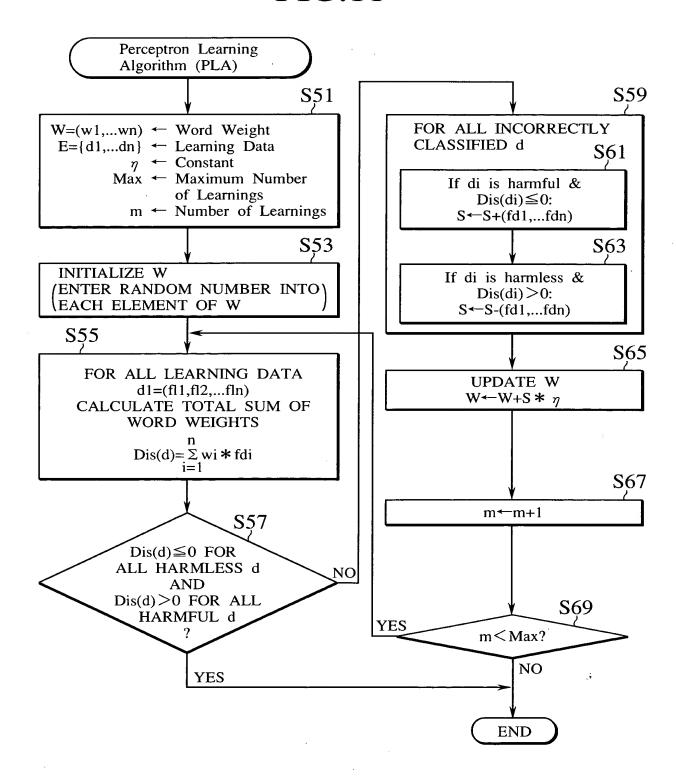
HTML DATA DESCRIPTION LANGUAGE SURVEY RESULT

| LANGUAGE | NUMBER OF DOCUMENTS | RATE |
|----------|---------------------|-------|
| ENGLISH | 15448 | 55.1% |
| JAPANESE | 10839 | 38.7% |
| OTHERS | 1747 | 6.2% |

FIG.10

RATES OF UPPER & LOWER LEVEL PAGES OF HTML DATA IN HARMFUL DATA

| ТҮРЕ | NUMBER OF DOCUMENTS | RATE |
|------------------|---------------------|-------|
| UPPER LEVEL DATA | 1495 | 6.9% |
| LOWER LEVEL DATA | 20309 | 93.1% |



PRECISION & RECALL OF AUTOMATIC FILTERING ON ALMOST TEXTLESS HTML DATA

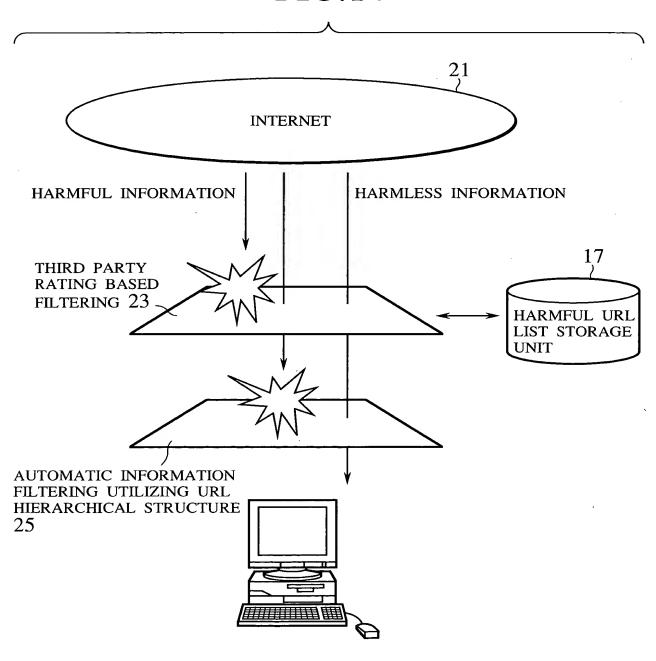
| min · | PRECISION | RECALL |
|-------|-----------|--------|
| 5 | 88.2% | 6.5% |
| 10 | 92.1% | 41.4% |
| 15 | 91.0% | 44.8% |
| 20 | 91.6% | 49.5% |

FIG.13

PRECISION & RECALL OF AUTOMATIC FILTERING ACCOUNTING FOR URL HIERARCHICAL STRUCTURE

| min | PRECISION | RECALL |
|-----|-----------|--------|
| 5 | 91.1% | 68.2% |
| 10 | 91.7% | 79.8% |
| 15 | 90.1% | 80.7% |
| 20 | 90.2% | 82.0% |

FIG.14



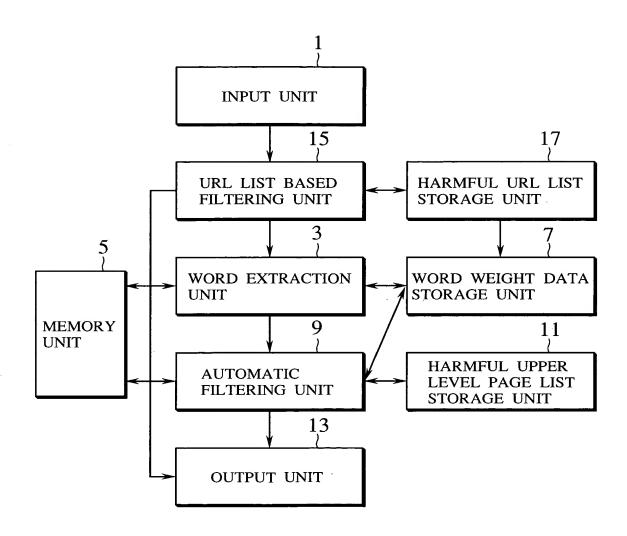
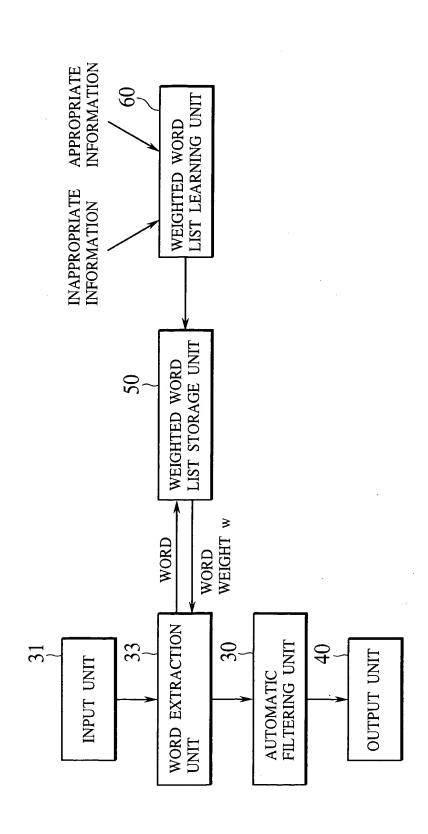
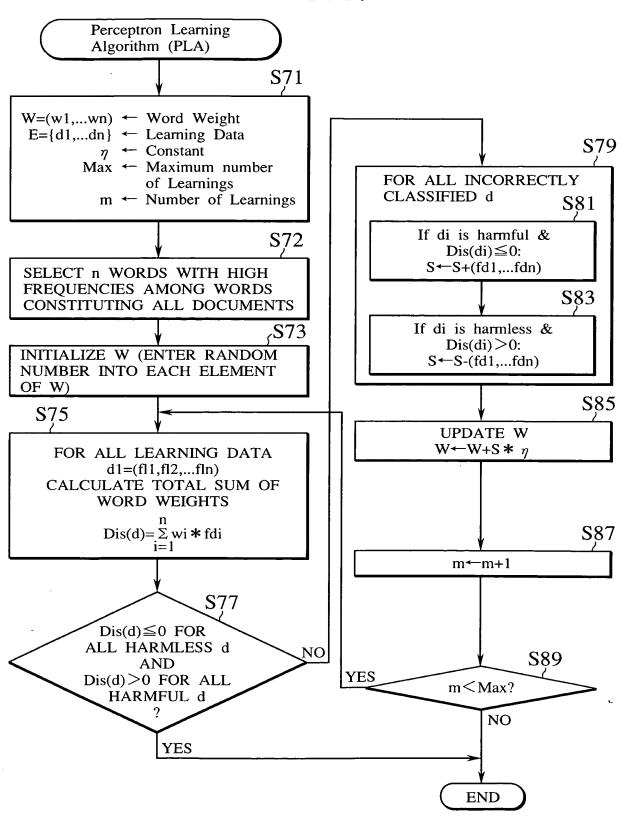


FIG. 16





| WEIGHTED WORD LIST | | |
|--------------------|---------------|--|
| WORD | WORD WEIGHT w | |
| : | | |
| IMAGE | 10.9 | |
| : | ÷ | |
| SAMPLE | 18.7 | |
| : | : | |
| ACCIDENT | -16.6 | |
| : | : | |
| HIGH SCHOOL GIRL | 82.2 | |
| : | : | |
| BUS | -101.9 | |
| : | : | |
| HOKKAIDO | -112.5 | |
| : | : | |
| FREE | -6.3 | |
| : | | |





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FIG.19

